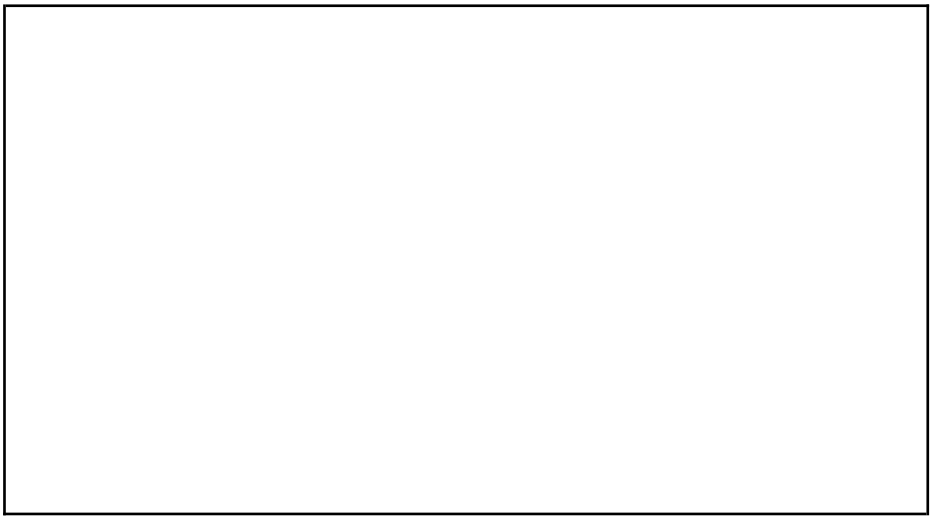
50SS018, 024, 030, 036, 042, 048 & 060

STANDARD-EFFICIENCY COMBINATION ELECTRIC COOLING UNITS W/OPTIONAL ELECTRIC HEAT

— PERFORMANCE DATA

— CERTIFIED DIMENSION PRINT

— CERTIFIED ROOF CURB DIMENSION PRINT



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Form 50SS-2SB Supersedes 50SS-1SB Printed in U.S.A. 5-97 Catalog No. 515-049

Date:	Supersedes:	**50SS018, 024, 030, 036, 042, 048 & 060 STANDARD-EFFICIENCY COMBINATION ELECTRIC COOLING UNITS W/OPTIONAL ELECTRIC HEAT**	50SS	Rev.: -2SB
JOB DATA:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

ARI 210

ARI 270

DESCRIPTION

50SS units are standard-efficiency, one-piece electric cooling units with optional electric heat, pre-wired and pre-charged at the factory.

50SS units are convertible discharge units that can be used for either horizontal or down discharge installations.

FEATURES

Standard one-year warranty.

Five-year Extended Protection Plan for the compressor.

Units are ‘‘Rated in accordance with ARI Standard No. 270 and 210/240.’’

Standard unit as factory assembled is design certified and listed by UL and CSA.

Low temperature cooling operation standard to 40 F (4 C).

Hermetic compressor with internal linebreak and overload protection, self lubricating. Scroll compressors on 4 and 5 ton sizes.

Crankcase heater is standard on 024-042 3-phase units. (Not required on 018, 048 and 060 units.)

Foil-faced cleanable insulation.

Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless copper tubes.

Sloped non-corrosive condensate drain pan.

Alternate electrical connections on opposite sides of unit.

Disconnect in accordance with NEC, must be field-supplied and installed.

Multi-speed, direct drive indoor fan motor.

Weatherized cabinets. Heavy duty phosphated zinc-coated prepainted steel. Capable of withstanding 500-hour salt spray.

24-volt control circuit.

Base rail standard on all 3-phase units.

PERFORMANCE DATA

Operating Weight _____ lb (unit); _____ lb (curb)

COOLING

Net Total Capacity _____ Btuh

Net Sensible Capacity _____ Btuh

Compressor Power Input _____ kW @ _____ °F Outdoor-Air Temperature

Indoor Entering Air db _____ °F wb _____ °F

SEER/EER _____

CFM _____ Ext. Static Pressure _____ in. wg

Indoor Fan Motor _____ Hp _____ Rpm _____ Bhp

HEATING

kW _____

Btuh _____

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz.

Minimum Circuit Amps _____ Maximum Overcurrent Protection _____

ACCESSORIES AND OPTIONS

FACTORY-INSTALLED OPTIONS

☐ Commercial Grade Base Rail

FIELD-INSTALLED ACCESSORIES

☐ 30% Open Manual Fresh Air Damper
☐ Roof Curb:
  ☐ 8″ Height
  ☐ 11″ Height
  ☐ 14″ Height
☐ One-in. Filter Rack

FIELD-INSTALLED ACCESSORIES (cont)

☐ Crankcase Heater — Single Phase Only (Required with 0° Low Ambient)
☐ Electronic Programmable Thermostat
☐ Thermostat and Subbase
☐ 0° Low Ambient
☐ Time Guard® II Device
☐ Controls Upgrade Kit (High- and Low-Pressure Switch)
☐ External Condensate Drain
☐ Electric Heat Package — 5-20 kW

CERTIFIED DIMENSION PRINT

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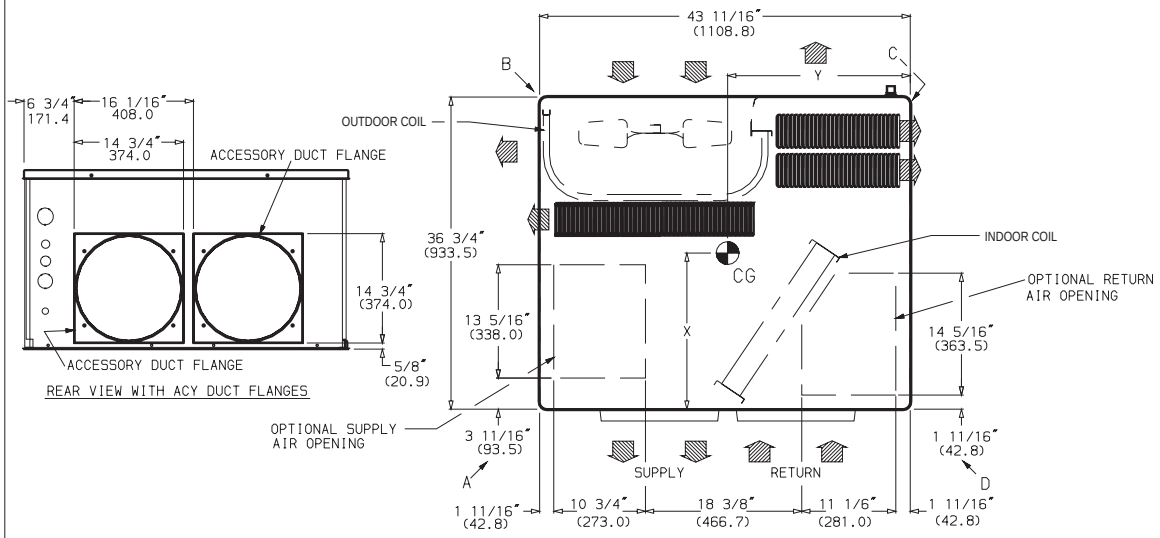


UNIT 50SS	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
018	208/230-1-60	208	95	61/28	43/20	69/31	35/16
024	208/230-1-60	237	108	60/27	54/25	92/42	31/14
030	208/230-1-60, 208/230-3-60	254	115	61/28	58/26	96/44	39/18
036	208/230-1-60, 208/230-3-60, 460-3-60	270	123	76/35	48/22	109/50	37/17
042	208/230-1-60, 208/230-3-60, 460-3-60	300	135	81/40	57/26	117/53	45/20
024	220-3-50, 400-3-50	258	117	59/27	60/27	84/38	55/25
030	220-3-50, 400-3-50	271	123	72/33	50/23	102/46	47/21
036	220-3-50, 400-3-50	297	135	66/30	88/40	100/45	43/20

UNIT 50SS		UNIT HEIGHT (in./mm)	DIMENSION (in./mm)	CENTER OF GRAVITY (in./mm)		
		E	F	X	Y	Z
018	60 Hz	24.12/612.8	18.18/461.8	19.63/499	21.69/551	10.59/269
024		24.12/612.8	18.18/461.8	22.46/570	20.87/530	10.00/254
030		24.12/612.8	18.18/461.8	22.10/561	20.33/516	9.96/253
036		24.12/612.8	18.18/461.8	21.20/538	19.93/506	9.88/251
042		28.12/714.2	22.18/563.4	21.28/540	19.92/506	11.25/286

NOTE: CLEARANCES MUST BE MAINTAINED TO PREVENT RECIRCULATION OF AIR FROM OUTDOOR FAN DISCHARGE.

REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

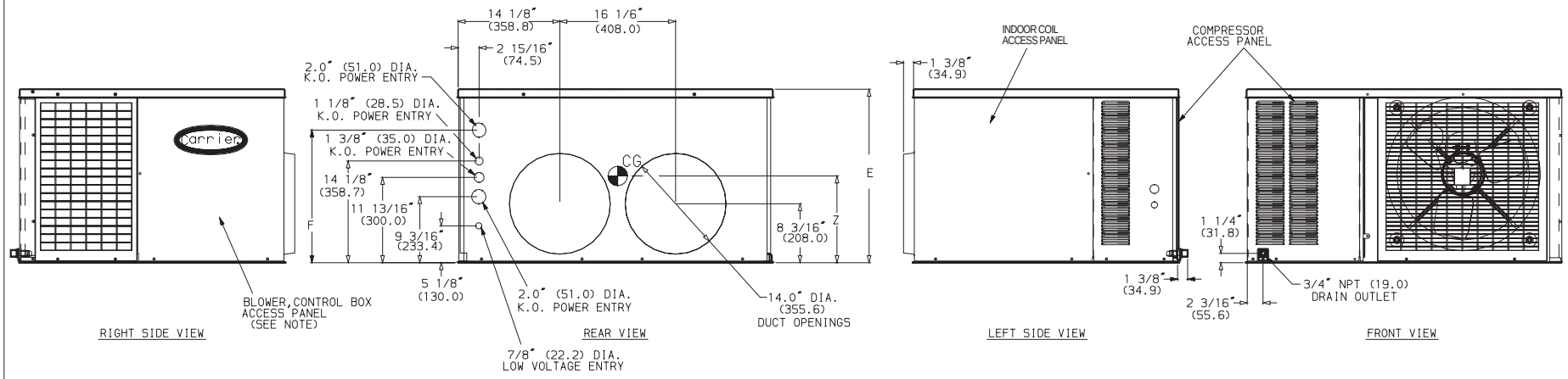
Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct	1 (25.4)

REQ'D CLEARANCES FOR SERVICING — in. (mm)

Indoor Coil Access Side	30 (762.0)
Control Box Access Side (Except for NEC requirements)	30 (762.0)
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)



DATE 08/30/94
SUPERSEDES 04/20/94
50SS018 - 50SS042 PACKAGED AIR CONDITIONER
50SS500413
REV

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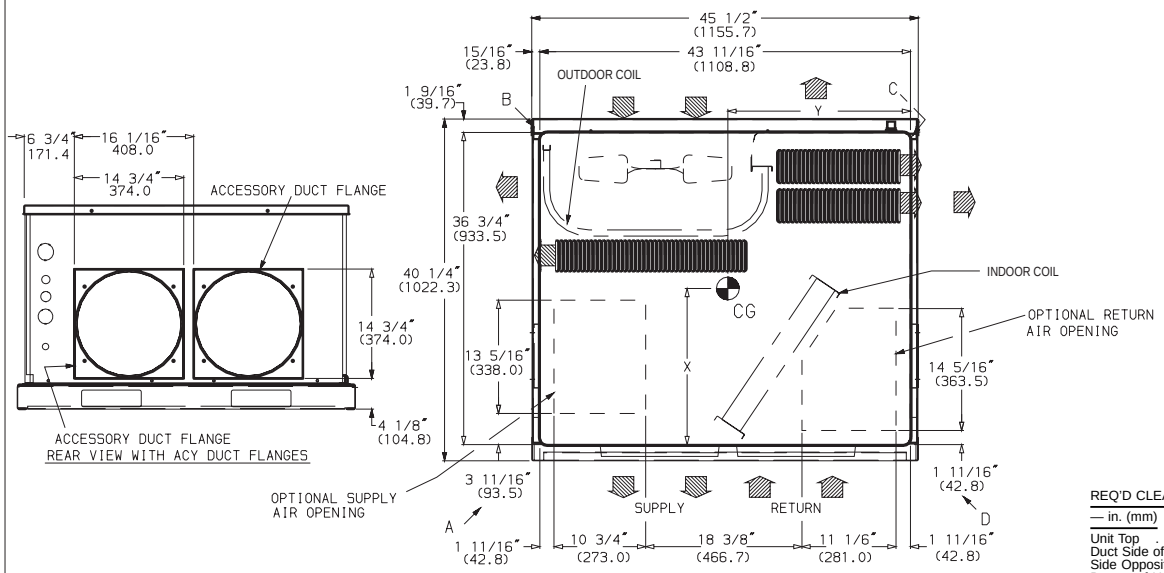


NOTE: Clearancesmust be maintained to prevent recirculation of air from outdoor fan discharge.

UNIT 50SS	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
018	208/230-1-60	228	104	66/30	48/22	74/34	40/18
024	208/230-1-60	257	117	65/30	59/27	97/44	36/16
030	208/230-1-60, 208/230-3-60	274	125	66/30	63/29	101/46	44/20
036	208/230-1-60, 208/230-3-60, 460-3-60	290	132	81/37	63/24	114/52	42/19
042	208/230-1-60, 208/230-3-60, 460-3-60	320	146	86/39	62/28	122/55	50/23
024	220-3-50, 400-3-50	278	126	64/29	65/30	89/40	60/27
030	220-3-50, 400-3-50	291	132	77/35	55/25	107/49	52/24
036	220-3-50, 400-3-50	317	144	71/32	93/42	105/48	48/22

UNIT 50SS		UNIT HEIGHT (in./mm)	DIMENSION (in./mm)	CENTER OF GRAVITY (in./mm)		
		E	F	X	Y	Z
018	60 Hz	27.43/696.7	21.50/546.1	19.51/495	21.69/551	12.90/327.7
024	60 Hz	27.43/696.7	21.50/546.1	22.13/562	20.93/532	12.31/312.7
030	60 Hz	27.43/696.7	21.50/546.1	21.82/554	20.43/519	12.27/311.7
036	60 Hz	27.43/696.7	21.50/546.1	20.99/533	20.05/509	12.19/309.6
042	60 Hz	31.43/798.3	25.50/647.7	20.96/532	20.07/510	13.56/344.4
024	50 Hz	27.43/696.7	21.50/546.1	20.20/513	20.13/511	12.31/312.7
030	50 Hz	27.43/696.7	21.50/546.1	20.30/516	19.68/500	12.27/311.7
036	50 Hz	27.43/696.7	21.50/546.1	22.77/578	22.45/570	12.19/309.6

REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

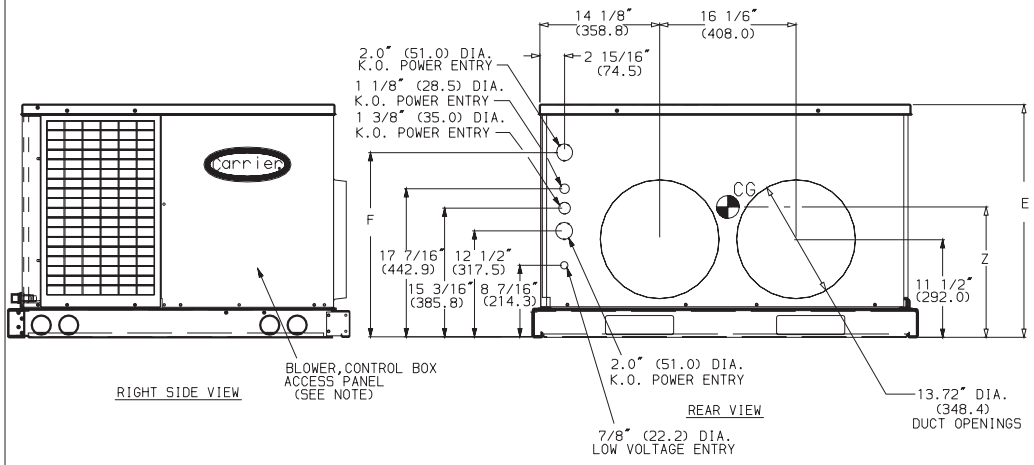
Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct	1 (25.4)

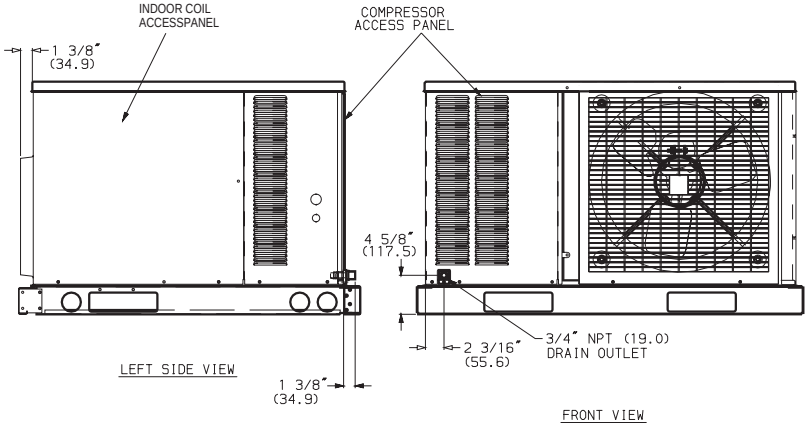
REQ'D CLEARANCES FOR SERVICING — in. (mm)

Indoor Coil Access Side	30 (762.0)
Control Box Access Side (Except for NEC requirements)	30 (762.0)
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)





DATE 04/20/94
SUPERSEDES -
50SS018 - 50SS042 PACKAGED AIR CONDITIONER
50SS500862
REV —

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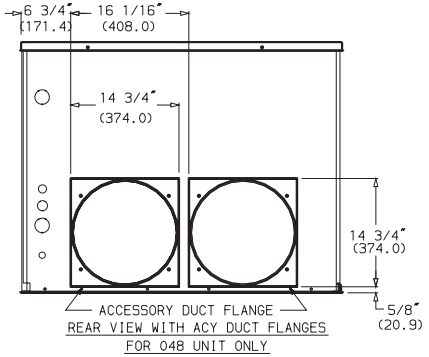
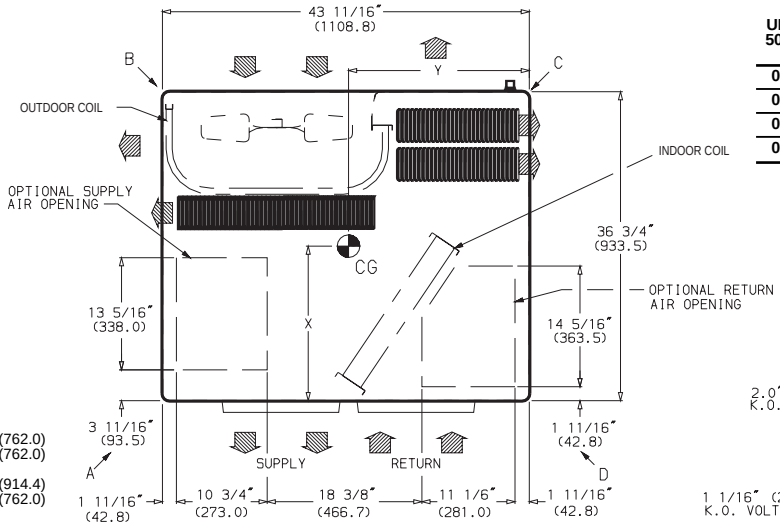




UNIT 50SS	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
048	208/230-1-60, 208/230-3-60, 460-3-60	332	151	82/37	68/31	131/60	51/23
060	208/230-1-60, 208/230-3-60, 460-3-60	359	163	65/30	99/45	120/55	75/34
048	220-3-50, 400-3-50	343	156	78/35	90/41	113/51	62/28
060	220-3-50, 400-3-50	350	159	84/38	87/40	100/45	79/36

UNIT 50SS		CENTER OF GRAVITY (in./mm)		
		X	Y	Z
048 060	60 Hz	21.85/555 22.24/565	19.60/498 19.82/503	13.43/341 13.39/340

REQ'D CLEARANCES FOR SERVICING — in. (mm)

Indoor Coil Access Side	30 (762.0)
Control Box Access Side (Except for NEC requirements)	30 (762.0)
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

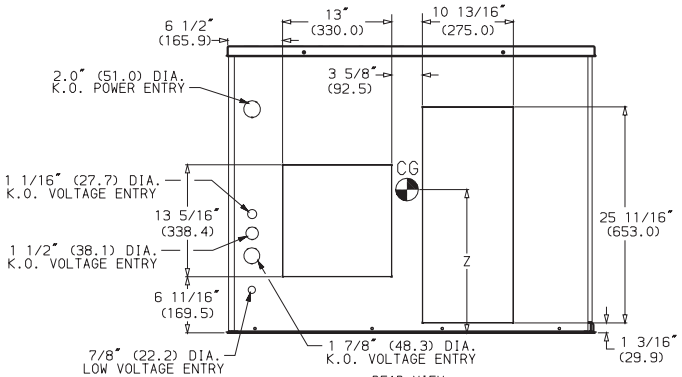
REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

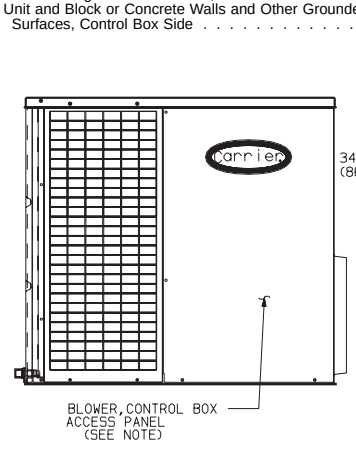
Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct.	1 (25.4)

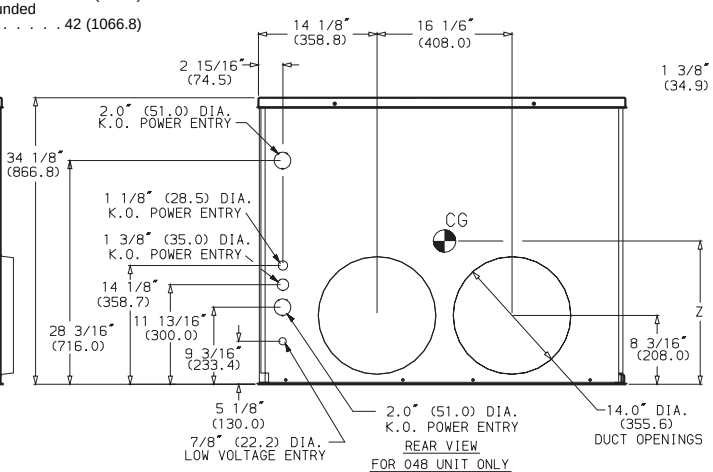
NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

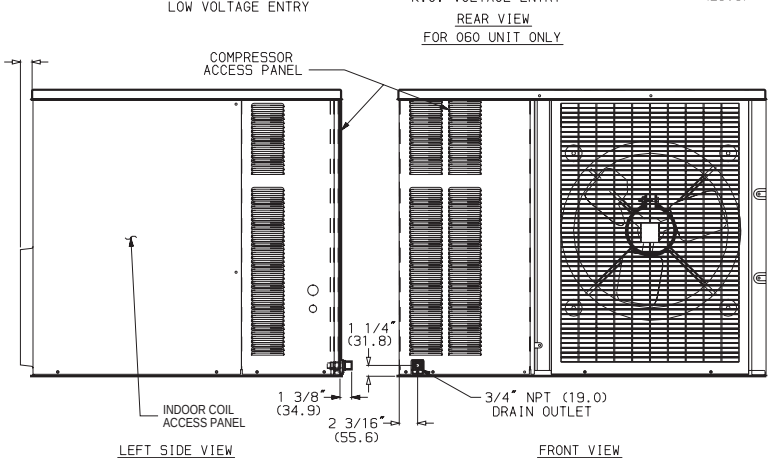
Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)

NOTE: Clearances must be maintained to prevent recirculation of air from outdoor fan discharge.









DATE 08/30/94
SUPERSEDES 04/20/94
50SS048 - 50SS060 PACKAGED AIR CONDITIONER
50SS500414
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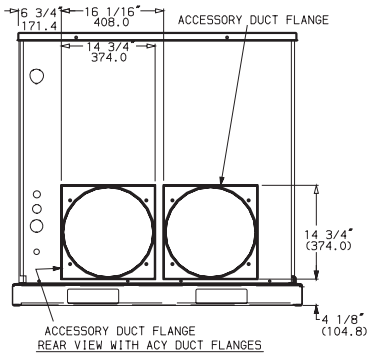
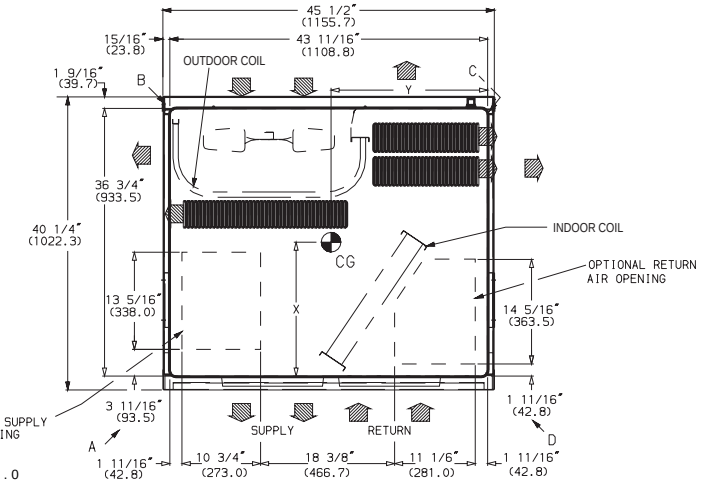




UNIT 50SS	ELECTRICAL CHARACTERISTICS	UNIT WEIGHT		CORNER WEIGHT (lb/kg)			
		lb	kg	A	B	C	D
048	208/230-1-60, 208/230-3-60, 460-3-60	352	160	87/40	73/33	136/62	56/25
060	208/230-1-60, 208/230-3-60, 460-3-60	379	172	70/32	104/47	125/57	80/36
048	220-3-50, 400-3-50	363	165	83/38	95/43	118/54	67/30
060	220-3-50, 400-3-50	370	168	89/40	92/42	105/48	84/38

NOTE: Clearances must be maintained to prevent recirculation of air from outdoor fan discharge.

REQ'D CLEARANCES TO COMBUSTIBLE MAT'L — in. (mm)

Unit Top	0
Duct Side of Unit	0
Side Opposite Ducts	0
Bottom of Unit	0
Vertical Discharge, First 12 in. (304.8) of Supply Duct	1 (25.4)

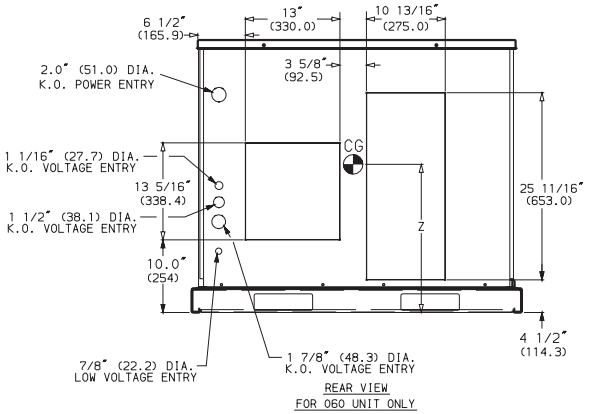
NEC (National Electrical Code) REQ'D CLEARANCES — in. (mm)

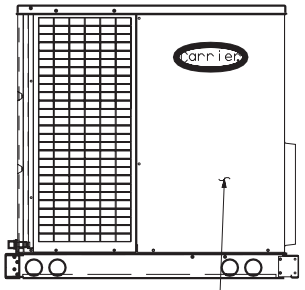
Between Units, Control Box Side	42 (1066.8)
Unit and Ungrounded Surfaces, Control Box Side	36 (914.4)
Unit and Block or Concrete Walls and Other Grounded Surfaces, Control Box Side	42 (1066.8)

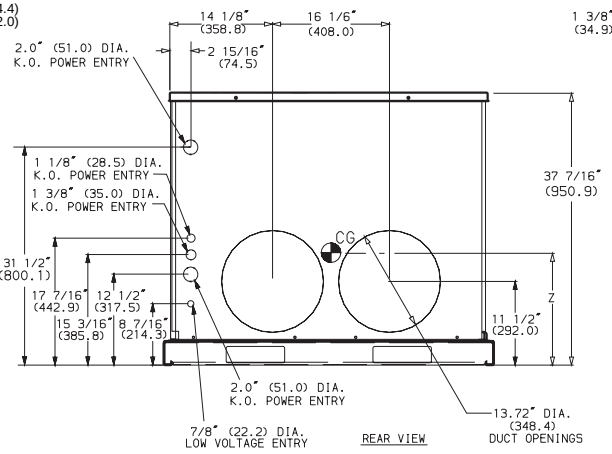
REQ'D CLEARANCES FOR SERVICING — in. (mm)

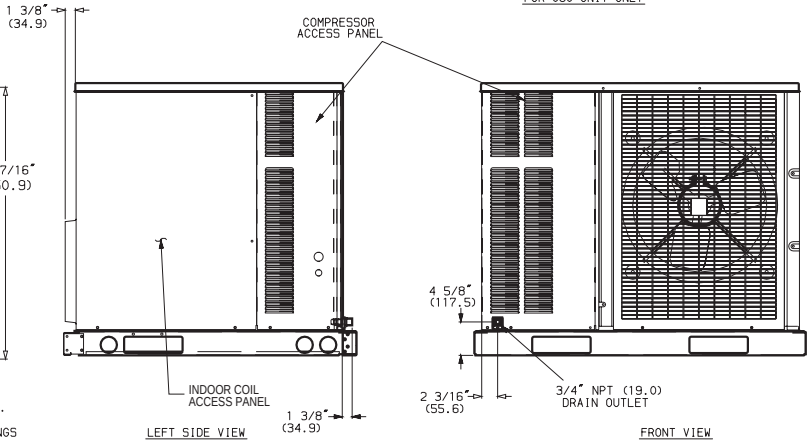
Indoor Coil Access Side	30 (762.0)
Control Box Access Side (Except for NEC requirements)	30 (762.0)
Unit Top	36 (914.4)
Side Opposite Ducts	30 (762.0)

UNIT 50SS		CENTER OF GRAVITY (in./mm)		
		X	Y	Z
048 060	60 Hz	21.65/549.9 22.03/559.6	19.72/500.9 19.92/506.0	15.74/399.8 15.70/398.8
048 060	50 Hz	21.39/543.3 19.41/493.0	21.28/540.5 21.23/539.2	15.74/399.8 15.70/398.8









DATE 04/20/94
SUPERSEDES -
50SS048 - 50SS060 PACKAGED AIR CONDITIONER
50SS500863
REV —

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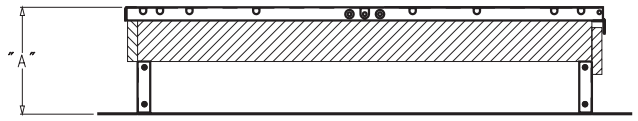
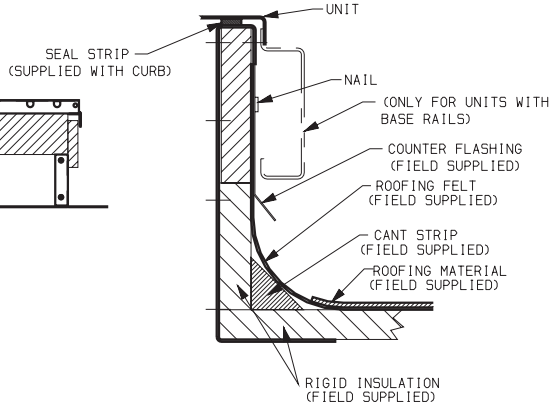
NOTES:
1. Roof curb must be set up for unit being installed.
2. Seal strip must be applied as required for unit being installed.
3. Dimensions in [ ] are in millimeters.
4. Roof curb is made of 16 gage steel.
5. Attach ductwork to curb (flanges of duct rest on curb).
6. Service clearance 4 ft on each side.
7. Direction of airflow.
8. Insulated Panels: 1-in. thick fiberglass 1 lb density.

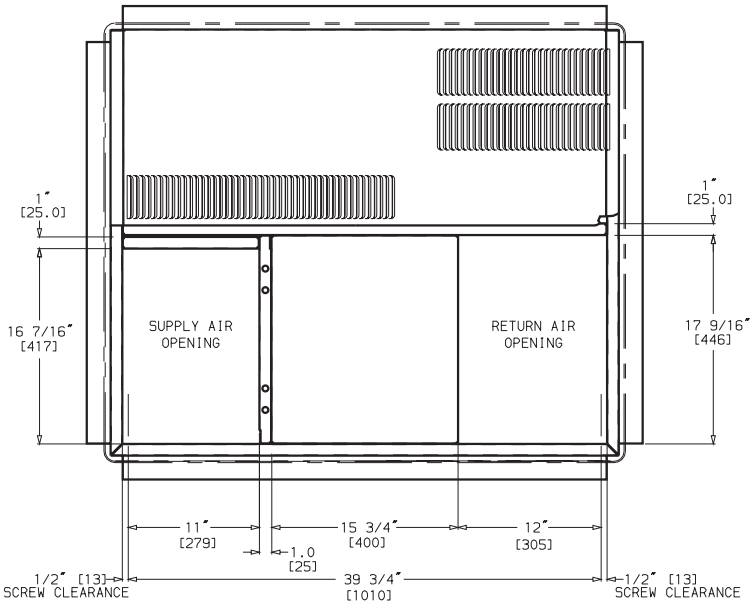
PART NUMBER	CURB	"A" (in./mm)
CPRFCURB001A00	FLAT	8 [203]
CPRFCURB002A00		11 [279]
CPRFCURB003A00		14 [356]

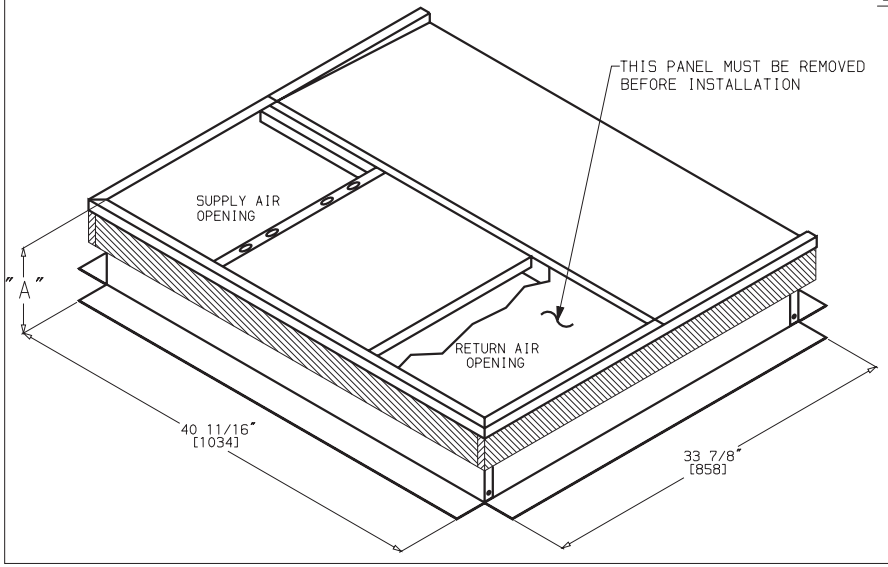


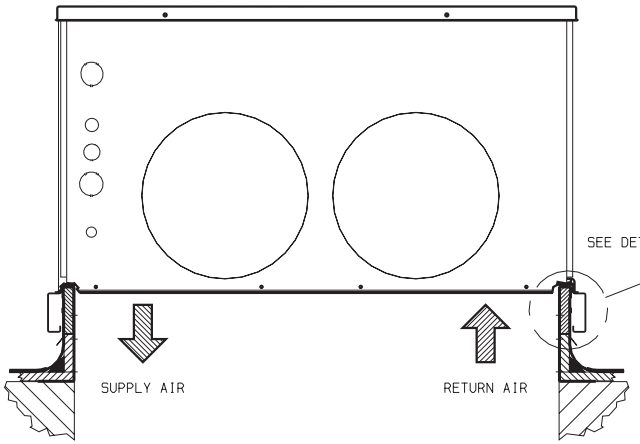
FLAT CURB



DETAIL "A"







DATE 04/18/94
SUPERSEDES 01/26/93
50SS 024-060 ROOFCURB
50SS500552
SHT 1
REV B